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论文

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飞行器结构与强度的现状与发展

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STATE-OF-ART AND FUTURE OF AIRCRAFT STRUCTURE DESIGN AND STRENGTH ANALYSIS

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摘要

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摘要 本文综合评述飞行器结构与强度的现状与发展,着重讨论了当前的几个重大中心课题,以求有助于型号研制和学术研究,推动航空科学技术的发展。因篇幅有限,对于现有成熟的技术与方法,不求罗列俱全。本文内容偏重于结合飞机结构,但也涉及航天器结构。

关键词:

Abstract: This paper reviews the state-of-art and the future of the design and the strength analysis of aircraft structures in brief. The emphasis is put on discussing some important topics for designers and researchers in this field so as to prompt engineering design and scientific research and to enhance the development of aeronautical science and technology. After a general review, the discussion covers the following subjects: The modern procedure of aircraft structure design, the finite element method and the structure analysis program system, the mode active control technology and analysis method, the application of fatigue and fracture, the advanced composite structures, the serious environment conditions, the reliabistic analysis for structures and structural test etc. . While the content mainly deals with the aircraft structures, quite a lot of its parts are concerned in or adapted to the aerospacecraft structures as well.

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